

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 21.08.2007

Revision: 01.12.2005

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *Retention Crystals (0,2 mm, 0,5 mm, 0,8 mm)*
- **Article number:** 530 0048 0, 530 0050 0, 530 0051 0
- **Application of the substance / the preparation** Retentions for acrylic/metal junctures.
- **Manufacturer/Supplier:**  
*bredent GmbH & Co.KG  
 Weißenhorner Straße 2  
 89250 Senden  
 Tel: +49 (0) 7309/872-0  
 Fax: +49 (0) 7309/872-24*
- **Further information obtainable from:**  
*R & D  
 e-mail: R.D@bredent.com*
- **Information in case of emergency:** Tel.: +49 (0) 6132-84436 (24 h)

## 2 Hazards identification

- **Hazard description:** *Not applicable.*
- **Information concerning particular hazards for human and environment:** *Not applicable.*

## 3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**  
*acrylonitrile/butadiene/styrene resin*
- **Identification number(s)**

## 4 First aid measures

- **General information:** *Personal protection for the First Aider.*
- **After skin contact:**  
*Immediately wash with water and soap and rinse thoroughly.  
 After contact with the molten product, cool rapidly with cold water.  
 Seek medical treatment.*
- **After eye contact:**  
*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
- **After swallowing:** *If symptoms persist consult doctor.*

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
*Water  
 Foam  
 Fire-extinguishing powder*
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
*Formation of toxic gases is possible during heating or in case of fire.*
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information**  
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

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## 6 Accidental release measures

- **Person-related safety precautions:** Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in dry conditions.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Granulate
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Weak, characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	>90°C
<b>Boiling point/Boiling range:</b>	Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Ignition temperature:** >400°C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** 1.05 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Insoluble.

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**Organic solvents:** 0.0 %

**· Solids content:** 100.0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
To avoid thermal decomposition do not overheat.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**  
At temperatures above 250°C, depolymerisation and the release of starting monomers can arise.  
The following may be given off during a fire:  
Carbon monoxide and carbon dioxide  
Styrene  
Nitrile

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.  
The substance is not subject to classification according to the latest version of the EU lists.

## 12 Ecological information

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **Marine pollutant:** No

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### **15 Regulatory information**

· **Labelling according to EU guidelines:**

*The substance is not subject to classification according to EU lists and other sources of literature known to us.*

*Observe the general safety regulations when handling chemicals.*

### **16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing MSDS:** R & D

· **Contact:** R & D

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